

### Abstract of the Disclosure

A fermentation medium containing: (a) a source of metabolizable carbon and energy; (b) a source of inorganic nitrogen; (c) a source of phosphate; (d) at least one metal selected from the group consisting of an  
5 alkali metal, an alkaline earth metal, a transition metal, and mixtures thereof; and (e) biotin, substantially free of particulate matter and bacteria.

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